



Department of Energy
Ohio Field Office
Fernald Environmental Management Project
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DEC 17 2002

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0139-03

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE AGREEMENT/
FEDERAL FACILITY AGREEMENT/REMEDIAL INVESTIGATION/FEASIBILITY STUDY/
CONSENT DECREE MONTHLY REPORT FOR THE PERIOD OF NOVEMBER 1, 2002
THROUGH NOVEMBER 30, 2002, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF
DECEMBER 1, 2002 THROUGH DECEMBER 31, 2002**

This letter transmits the Consolidated Consent Agreement/Federal Facility Compliance Agreement/Federal Facility Agreement/Remedial Investigation/Feasibility Study/Consent Decree Monthly Report for the period November 1, 2002 through November 30, 2002, including anticipated work for the period of December 1, 2002 through December 30, 2002. This report is formatted to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J. A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements," dated January 16, 1996, and agreed to by the United States Environmental Protection Agency (USEPA) and Ohio Environmental Protection Agency (OEPA).

If you have any questions, please contact me at (513) 648-3139.

Sincerely,

Johnny W. Reising
Fernald Remedial Action
Project Manager

FEMP:Reising

Enclosures: As Stated

DEC 17 2002

Mr. James A. Saric
Mr. Tom Schneider

-2-

DOE-0139-03

4617

cc w/enclosure:

N. Hallein, EM-31/CLOV
G. Jablonowski, USEPA-V, SRF-5J
V. Dastillung, FRESH
P. Dunn, FRESH
D. Sarno, FCAB
M. Cullerton, Tetra Tech
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosure:

R. Greenberg, EM-31/CLOV
A. Tanner, OH/FEMP
F. Bell, ATSDR
M. Shupe, HSI GeoTrans
D. Carr, Fluor Fernald, Inc./MS2
T. Hagen, Fluor Fernald, Inc./MS9
T. Poff, Fluor Fernald, Inc./MS65-2
ECDC, Fluor Fernald, Inc./MS52-7

**CONSOLIDATED CONSENT AGREEMENT/FEDERAL FACILITY COMPLIANCE
AGREEMENT/FEDERAL FACILITY AGREEMENT/REMEDIATION INVESTIGATION/FEASIBILITY
STUDY/CONSENT DECREE MONTHLY REPORT NOVEMBER 1, 2002 THROUGH
NOVEMBER 30, 2002, INCLUDING ANTICIPATED WORK FOR THE PERIOD OF
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4617

This report describes actions at the Fernald Environmental Management Project (FEMP) from November 1, 2002 through November 30, 2002 and anticipated work for the period of December 1, 2002 through December 31, 2002. The monthly report has been revised to reflect the proposal presented in the letter, DOE-0395-96, J. Reising to J. A. Saric and T. Schneider, "Phase VII Removal Actions and Reporting Requirements under the FEMP Legal Agreements," dated January 16, 1996, and agreed to by USEPA and OEPA.

OPERABLE UNIT 1 - WASTE PITS REMEDIAL ACTION PROJECT

November 2002

- Enforceable Milestones Completed
 - None
- Work Initiated/Continued/Completed
 - Loaded 19,171 tons of material from waste pits
 - Shipped 170 railcars, 18,313 tons (UT70, UT71 and UT72) of material for disposal at Envirocare

December 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Work To Be Initiated/Continued/Completed
 - Load 11,060 tons of material from waste pits
 - Ship 120 railcars (UT73 and UT74) of material for disposal at Envirocare

OPERABLE UNIT 2 - ON-SITE DISPOSAL FACILITY AND SOIL CHARACTERIZATION AND EXCAVATION PROJECT (Additional OU2 soils-related activities may be reported under OU5/Soils Characterization and Excavation Project)

November 2002

- Enforceable Milestones Completed
 - On-Site Disposal Facility (OSDF) - Completed one ft Protective Layer for Cell 4, November 20, 2002 and Completed one ft Protective layer for Cell 5, November 27, 2002
 - Soils Characterization and Excavation Project (SCEP) - None

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4617

- Work Initiated/Continued/Completed
 - On-Site Disposal Facility (OSDF)
 - Completed geotextile placement in Cell 4 and Cell 5 liners
 - Completed Cell 4 Liner and Cell 5 Liner clay wedge construction
 - Started and completed 12 inch protective impacted layer for Cell 4 Liner and Cell 5 Liner
 - Continued Part 2 of Remodeling of RIMIA for OSDF/SDFP Relocation
 - Continued Title III and CQC services for OSDF Construction
 - Continued excavation of impacted material Sed Basin #2
 - Started Cell 4 liner two ft Select Impacted Layer
 - Completed placement of impacted materials for this construction season in Cell 3
 - Completed gray clay excavation in Borrow Area
 - Soils Characterization and Excavation Project (SCEP)
 - Completed sampling beneath Plant 6 Pad as part of 3A/4A subsurface predesign
 - Continued Concrete Breaking/Crushing in Area 3A and Area 4A
 - Continued excavation of Area 3A and 4A
 - Continued Restoration work in Southern Waste Units and Northern Pines
 - Continued maintenance of Organic Soil stockpile
 - Completed Area 7 Phase I Pre-certification PSP
 - Continued Area 8 Phase III Pre-certification PSP
 - Continued Predesign WAC and FRL Attainment sampling for Areas 3B/4B/5
 - Continued excavation of southeast corner of Plant 9 above WAC area
 - Continued Site Prep of Fire Training Facility
 - Continued Pre-certification of Area 9 Phase II
 - Continued Pre-certification of Area 6 Phase I
 - Completed hauling soil from Area 7 (Silos) and stockpiling in Area 3A

December 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - On-Site Disposal Facility (OSDF) - None

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- Soils Characterization and Excavation Project (SCEP) – Submit Area 8 Phase III CDL to EPA, December 19, 2002
- Work To Be Initiated/Continued/Completed
 - On-Site Disposal Facility (OSDF)
 - Continue Title III services and CQC Services for OSDF Construction
 - Continue Part 2 of remodeling of RIMIA for OSDF/SDFP relocation
 - Start Restoration of Borrow Area 1 and 2
 - Continue excavation of impacted material Sed Basin #2
 - Complete Cell 4 liner two ft Select Impacted Layer
 - Start and complete additional one ft Category 1 Material for Cell 4 liner to accommodate transite placement
 - Start installation of horizontal well for Cell # 6
 - Soils Characterization and Excavation Project (SCEP)
 - Complete excavation of southeast corner of plant 9 above WAC area
 - Continue breaking concrete in Area 3A and 4A
 - Complete Area 9 Phase II Pre-certification
 - Continue restoration work in Southern Waste Units and Northern Pines
 - Continue final Area 2 Phase II IRDP
 - Submit final Solid Waste Landfill and Fire Training Facility IRDP
 - Start excavation of Fire Training Facility
 - Continue excavation of Area 3A and Area 4A
 - Continue maintenance of Organic Soil Stockpile
 - Complete Area 8 Phase III Pre-Certification PSP
 - Continue Pre-design WAC and FRL Attainment sampling for Areas 3B/4B/5
 - Complete Area 6 Phase I Pre-certification
 - Submit Area 6 Phase I CDL/PSP
 - Submit Area 9 Phase II CDL/PSP
 - Submit Area 8 Phase III CDL/PSP

OPERABLE UNIT 3 - FACILITIES CLOSURE AND DEMOLITION PROJECT

November 2002

- Enforceable Milestones Completed
 - None

- 4617

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- Work Initiated/Continued/Completed
 - Plant 2
 - Continued shearing, size reduction, and loading of tanks north of Bldg. 2D
 - Continued to shear, size reduce, and load equipment and miscellaneous debris from Bldg. 2A Digestion Area and Denitration Area and Extraction Area
 - Continued building preparation and asbestos abatement in Bldg. 2B/C. Asbestos VAT removal completed.
 - Completed 2B/C release survey
 - Plant 3
 - Component 3J - Completed asbestos abatement and began shearing, sizing, and loading
 - Component 3D - Began takedown of NAR towers
 - Bldg. 3E - Began building preparation, sealing, and installation of lighting
 - Plant 8
 - Bldg. 8A - Continued building prep, asbestos abatement, and non-process equipment systems removal
 - Bldg. 8G - Asbestos abatement
 - Pilot Plant
 - Bldg. 13A - Began building preparation and asbestos abatement
 - Bldg. 13B - Demolition and loadout completed
 - Bldg. 13D - Began equipment/system removal
 - Bldg. 37 - Began building prep and shearing/removal of structural steel
 - Bldg. 54A - Removed transformer, continued building preparation, asbestos abatement, and air machine set-up
 - Bldg. 54C - Demolition completed
 - Respirator Trailer set-up was begun
 - Lab and Liquid storage
 - Kickoff meeting was held November 12
 - Turned over lab to Demolition Projects
 - Utility Redistribution/Facilities Shutdown
 - Continued work to replace steam heat source for Buildings 82A, 31 and 46
 - Began planning and performing Bldg. 26A utility isolations
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4617

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- Began installing lift station for excavating Area 4B utility redistribution
- Began parking lot light re-feed and continued installation of the last two Honeywell Silent Knight panels at AWWT

December 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Work To Be Initiated/Continued/Completed
 - Plants 2,3,8,GS (Task 1)
 - Building 2A - Digestion area equipment/system removal, shear/size/load.
 - Extraction area, remove equipment systems. Denitration area equipment/system removal. Building 2D - Shear, size and loading of north side tanks. Building 2B/2C - exterior transite lockdown. Building 3H - Shearing, sizing and loading. Transition Pipe Rack - shearing/sizing/loading. Building 3D - structural steel shearing. Building 3E - Seal building, install lighting and tanks, gross wash down. Component 3J - shearing, sizing and loading. Building 8A - Building prep, transite removal, asbestos abatement & non-process equipment removal, remove interior transite 1st and 2nd floor, beryllium cleanup. Building 8G - Asbestos abatement. Process piping inspections.
 - Pilot Plant (Task 3)
 - Building 13A - Building prep, asbestos abatement
 - Building 37 - equip/system removal
 - Building 54A - Building prep, set-up air machines, Equip/system removal
 - NW Thorium Baghouse - Building prep.
 - Building 13C - Asbestos abatement
 - Building 13D - Equip/system removal
 - Bldg. 37 - Remediate beryllium, equip/system removal.
 - Lab and Liquid storage
 - Liquid Storage (Task 2) - Lab temporary power to be started
 - Begin lab building prep
 - Bldg. 22D - Begin building prep and demolition
 - Lab - Begin lab water removal
 - Bldg. 20G - Begin work

4617

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- Utility Redistribution/Facilities Shutdown
 - Continue Building 26A utility isolations
 - Completing Building 31, 46 and 82A heating punch list items
 - Complete Area 4B Lift Station installation
 - Continuing planning utility isolations for Building 26A, Excavation areas 3B and 4B.

OPERABLE UNIT 4 - SILOS PROJECT

November 2002

- Enforceable Milestones Completed
 - Requested and received approval from the USEPA to extend the milestone for initiation of Radon Control System (RCS) Phase 1 operation to from November 1 to December 16, 2002
 - Extended the date for submittal of response to USEPA disapproval of draft revised Proposed Plan (PP) for Silo 3 the USEPA to December 16, 2002
- Work Initiated/Continued/Completed
 - Met with OEPA and USEPA to discuss comments and develop path forward for finalization of the revised PP for Silo 3; initiated preparation of a revised draft PP.
 - Completed preparations, documentation, and drills for RCS Phase 1 operation. Declared readiness and initiated Fluor Fernald Standard Startup review (SSR) and DOE Readiness Assessment (RA).
 - Initiated excavation for the Silo 3 remediation facility foundation.
 - Continued excavation and site preparation construction for the Silo 1 and 2 Remediation facility foundation initiated installation of the remediation facility concrete mat foundation.
 - Continue vendor design activities for Silo 3 and Silos 1 and 2 projects
 - Received OEPA comments on the Silos 1 and 2 Accelerated waste retrieval (AWR) Project Remedial Design (RD) Package
 - Presented a detailed technical status briefing on the Silos 1 and 2 AWR project for the USEPA and OEPA

December 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - Initiate Radon Control System (RCS) Phase 1 operation by December 16, 2002.
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4617

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STUDY/CONSENT DECREE MONTHLY REPORT NOVEMBER 1, 2002 THROUGH
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DECEMBER 1, 2002 THROUGH DECEMBER 31, 2002**

- Submit response to USEPA and OEPA comments and revised draft Proposed Plan (PP) or Silo 3 the USEPA and OEPA by December 16, 2002.
- Submit draft Remedial Design (RD) Package for the Silos 1 and 2 remediation project to USEPA and OEPA by December 20, 2002
- Work To Be Initiated/Continued/Completed
 - Submit responses to final OEPA comments on the AWR Project RD Package
 - Conduct public technical roundtable on the AWR Project (12/10/02)
 - Install the Silo 3 remediation facility foundation.
 - Continue installation of the Silo 1 and 2 Remediation Facility concrete mat foundation.
 - Initiate construction of the Silos 1 and 2 warehouse and rail spur
 - Continue vendor design activities for Silo 3 and Silos 1 and 2 projects

OPERABLE UNIT 5 - AQUIFER RESTORATION AND WASTEWATER PROJECT

November 2002

- Enforceable Milestones Completed
 - Submitted monthly NPDES Discharge Monitoring Report for October to the OEPA on November 14
- Work Initiated/Continued/Completed
 - Additional South Field Monitoring Wells - Installation and development activities of the 22 monitoring wells and 4 multilevel wells is completed
 - Began monitoring the flow from the Cell 4 and Cell 5 leachate collection and leak detection systems as waste placement began in both cells during November
 - Completed rehabilitation of Injection Well 10
 - Began injecting treated groundwater in replacement Reinjection Wells 8A and 9A

December 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - Submit monthly NPDES Discharge Monitoring Report to the OEPA each month (covers the previous month).

4617

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- Work To Be Initiated/Continued/Completed
 - Continue to perform maintenance/rehabilitation on injection and extraction wells
 - Begin injecting treated groundwater in Re-Injection Well 10A
 - Install dedicated sampling equipment in the new South Field monitoring wells then sample the wells for total uranium
 - Continue construction activities for the installation of the infrastructure phase of the South Field Extraction System Phase II project

WASTE MANAGEMENT

November 2002

- Enforceable Milestones
 - None
- Work Initiated/Continued/Completed
 - Inorganic Treatment Project (ITP)
 - Received bids for treatment and disposal of our barium carbonate waste (28 drums)
 - Incinerator Liquids (Liquid mixed Waste Bulking Project)
 - Completed Batch 13 bulking of 184 containers (53,901 pounds).
 - Organic Treatment Project
 - Submitted profiles for FEMP scabbled concrete waste and Organic sludges to Envirocare. Once approved, these profiles will authorize M&EC to ship our treated waste to Envirocare for disposal.
 - Shipped two drums of Vacuum Thermal Desorption waste to Envirocare for treatability study. This waste was treated on 11/23 and 11/24.
 - Collected required pre-shipment samples for VTD System Operability Test waste. These samples will be used to establish boundaries for the entire VTD inventory and will support the remaining waste profile process
 - Sample Disposition
 - Began segregation of samples for the disposition project in Building 68

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- Waste Minimization/Pollution Prevention
 - Submitted the first DOE P2 Report on Accomplishment Data through the new DOE Web site on November 11, 2002
 - Submitted the second P2 report on Annual Waste Generation and Pollution Prevention via DOE Web site on November 27

December 2002 (Anticipated)

- Enforceable Milestones To Be Completed
 - None
- Work To Be Initiated/Continued/Completed
 - Incinerator Liquids (Liquid mixed Waste Bulking Project)
 - Batch 13 sampling activities are planned as 12/9 preliminary (phase) sampling and 12/16 sampling for analysis. Evaluate additional waste for inclusion into Batch 13 prior to sampling. Finalize December Batch 13 sampling activities.
 - Sample disposition
 - Continue sample segregation activities in Building 68.
 - Hazardous Waste Project
 - Complete Work Request to have 18 drums of light ballasts that have the potential to be free released and recycled sorted at Bldg. 79. Modify the Heritage contract to include radiological activities.
 - Inorganic Treatment Project (ITP)
 - Ship WCS-8 containers
 - Macroencapsulation
 - Process and package IMAC 1004. Treatment of Envirocare lead waste is scheduled for week of 12/15 with disposal scheduled for April 2003
 - Organic Treatment Project
 - Complete profiles for VTD SOT waste. Complete profiles for 242 containers destined for M&EC under the global BOA contract